



## BIOLOGY NMDCAT EARLIER PREP

### PMC UNIT WISE TEST Unit-7

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**03418729745(WhatsApp Groups)**

**SAEED MDCAT TEAM**

#### TOPIC:

✓ Life processes in Animals & Plants (Transport in Plants and Animals)

**Q.1** Root hair are the extensions of:

- A. Pericycle
- B. Epidermis
- C. Pith
- D. Parenchyma

**Q.2** Which of the following pathway of water conduction is interrupted by endodermis?

- A. Vacuolar pathway
- B. Symplast pathway
- C. Apoplast pathway
- D. All A, B, C

**Q.3** It separates extracellular space in root into two compartments:

- A. Cortex
- B. Plasmodesmata
- C. Pericycle
- D. Casparian strips

**Q.4** It is the main factor that is involved in uptake of water to aerial parts of plants:

- A. Cohesion
- B. Transpiration pull
- C. Imbibition
- D. Root pressure

**Q.5** If a plant absorbs 10 liters of water per day, then what will be the amount of water used by the plant for its metabolism?

- A. 0.1 liter
- B. 5 liters
- C. 1 liter
- D. 9 liters

**Q.6** In plants, facilitated diffusion helps in the transport of minerals across the cell membrane by using:

- A. Phospholipids
- B. Membrane proteins
- C. Cholesterol molecules
- D. Membrane carbohydrates

**Q.7** It is the attraction among water molecules which holds them together within the xylem tube:

- A. Tension
- B. Adhesion
- C. Cohesion
- D. Imbibition

**Q.8** Stomata open due to \_\_\_\_\_ of  $K^+$  into guard cell.

- A. Diffusion
- B. Active transport
- C. Facilitated diffusion
- D. Osmosis

**Q.9** The hormone which reduces the rate of transpiration by stopping  $K^+$  influx into the guard cells:

- A. Auxins
- B. Cytokinins
- C. Gibberellins
- D. Abscissic acid

**Q.10** All environmental factors are sensed by guard cell except:

- A. Temperature
- B. Light intensity
- C. Nitrogen in air
- D. Relative humidity

**Q.11** \_\_\_\_\_ wavelength of light is responsible for opening of stomata.

- A. Red
- B. Green
- C. Blue
- D. Yellow

**Q.12** Rate of transpiration will increase by increasing all except:

- A. Light
- B. Temperature
- C. Wind
- D. Humidity

**Q.13** Food in plants is transported in the form of:

- A. Monosaccharide
- B. Polysaccharide
- C. Disaccharide
- D. Oligosaccharide



- Q.14** In \_\_\_\_\_ pathway, water molecules move through plasmodesmata from one cell to the other.
- A. Apoplast B. Vacuolar  
C. Symplast D. Protoplast
- Q.15** It is found among water molecules by which water can move up the xylem like an unbroken column:
- A. Covalent bonds B. Ionic bonds  
C. H-bonds D. Ester bonds
- Q.16** Significance of transpiration lies in:
- A. Ascent of sap B. Translocation of mineral salts  
C. Cooling effect D. All A, B, C
- Q.17** It is the most widely accepted theory of carbohydrate translocation:
- A. Root pressure theory B. Imbibition theory  
C. Mass flow theory D. Osmotic theory
- Q.18** Guard cells differ from adjacent epidermal cells in having:
- A. Mitochondria B. Cell wall  
C. Vacuole D. Chloroplast
- Q.19** Wilting appears due to excessive:
- A. Respiration B. Transpiration  
C. Absorption D. Photosynthesis
- Q.20** Which of the following correctly represents carbohydrates in plants?
- |    | Synthesized | Transported | Stored   |
|----|-------------|-------------|----------|
| A. | Glucose     | Glucose     | Starch   |
| B. | Glucose     | Sucrose     | Glycogen |
| C. | Sucrose     | Glucose     | Starch   |
| D. | Glucose     | Sucrose     | Starch   |
- Q.21** Apoplast pathway can take water up till:
- A. Xylem B. Endodermis  
C. Epidermis D. Cortex
- Q.22** In humans, the transportation of various substances is accomplished by:
- A. Lymphatic and excretory systems B. Cardiovascular and digestive systems  
C. Lymphatic and cardiovascular systems D. Nervous and muscular system
- Q.23** The number of pulmonary veins that can carry oxygenated blood to left atrium are:
- A. 2 B. 3  
C. 4 D. 6
- Q.24** Which one of the following pair is mismatched?
- |    |                     |  |
|----|---------------------|--|
| A. | Renal vein          | Carries deoxygenated blood away from kidneys     |
| B. | Hepatic vein        | Carries deoxygenated blood away from liver       |
| C. | Hepatic portal vein | Carries oxygenated blood with food towards liver |
| D. | Pulmonary vein      | Carries oxygenated blood to left atrium          |
- Q.25** The most powerful contraction is generated by:
- A. Left atrium B. Right atrium  
C. Left ventricle D. Right ventricle
- Q.26** Bicuspid valve is:
- A. Right ventricular inlet B. Right ventricular outlet  
C. Left ventricular inlet D. Left ventricular outlet
- Q.27** During checkup of heart patient, doctor heard the 'dubb' sound with stethoscope. This sound was produced due to:
- A. Opening of semilunar valve B. Closing of semilunar valve  
C. Opening of mitral valve D. Opening of tricuspid valve
- Q.28** A structure that is common among all blood vessels:
- A. Connective tissue B. Elastic tissue  
C. Endothelium D. Smooth muscles





- Q.29 B-lymphocytes directly develop from:**  
A. Lymphoid stem cells in thymus  
B. Phagocytic stem cell in bone marrow  
C. Lymphoid stem cells in bone marrow  
D. Erythroblasts in embryonic liver
- Q.30 Most abundant agranulocytes in blood are:**  
A. Eosinophils  
B. Lymphocytes  
C. Neutrophils  
D. Monocytes
- Q.31 The major function of basophils is to:**  
A. Destroy small particles by phagocytosis  
B. Transport oxygen from lungs to tissues  
C. Release histamine to cause inflammation  
D. Inactivate inflammation producing substances
- Q.32 Thoracic lymph duct of the lymphatic system opens into:**  
A. Superior vena cava  
B. Right sub-clavian vein  
C. Left sub-clavian vein  
D. Hepatic portal vein
- Q.33 All are properties of cardiac tissue except:**  
A. Intercalated discs  
B. Irregular striations  
C. Controlled by autonomic nervous system  
D. Easily fatigued
- Q.34 The pH of blood is:**  
A. Slightly Acidic  
B. Highly basic  
C. Highly acidic  
D. Slightly basic
- Q.35 These are the blood vessel which have thin walls for nutrient exchange with tissue fluid:**  
A. Veins  
B. Arteries  
C. Capillaries  
D. Arterioles
- Q.36 Blood clotting is prevented by the presence of:**  
A. Vitamin K  
B. Calcium ions  
C. Heparin  
D. Thrombin
- Q.37 Action potential for heart beat originates from:**  
A. SA node  
B. Vagus nerve  
C. AV node  
D. Cardiac nerve
- Q.38 Which protein plays a major role in maintaining osmotic balance?**  
A. Albumin  
B. Fibrinogen  
C. Globulin  
D. Prothrombin
- Q.39 The average lifespan of RBC's is about:**  
A. Two months  
B. One month  
C. Five months  
D. Four months
- Q.40 Chordae tendineae are fibrous cords attached with:**  
A. AV valve  
B. Pericardium  
C. Semilunar valve  
D. Epicardium
- Q.41 The type of agranulocytes which stay in blood for few hours and then enter the tissue and become macrophages are:**  
A. Lymphocytes  
B. Eosinophils  
C. Monocytes  
D. Basophils
- Q.42 In humans, the closed sac which surrounds the heart is:**  
A. Endocardium  
B. Pericardium  
C. Myocardium  
D. Epicardium
- Q.43 At the end of abdomen, aorta bifurcates into:**  
A. Renal arteries  
B. Iliac arteries  
C. Femoral arteries  
D. Sciatic arteries
- Q.44 The correct direction of blood flow around the human body is:**  
A. Heart → Body → Heart → Body → Lungs



- B. Heart → Lungs → Heart → Body → Heart  
C. Heart → Liver → Heart → Brain → Body  
D. Heart → Body → Lungs → Heart → Body
- Q.45 Heart receives \_\_\_\_\_ blood during diastole.**  
A. Oxygenated  
B. Venous  
C. Deoxygenated  
D. Oxygenated + nutrient rich
- Q.46 Physical barriers of immunity include:**  
A. Skin and mucous membranes  
B. Mucous membranes and phagocytes  
C. Mucous membranes and HCl  
D. Skin and lymphocytes
- Q.47 These are the proteins produced by body against bacteria and help to immobilize them:**  
A. Immunoglobulins  
B. Interferons  
C. Heparin  
D. Histamine
- Q.48 Antigen antibody complexes formed in body are removed by:**  
A. Lymphocytes  
B. RBCs  
C. Phagocytes  
D. Platelets
- Q.49 How many disulfide bridges are present between light chains in an antibody molecule?**  
A. 0  
B. 1  
C. 2  
D. 4
- Q.50 Mr. Ahmad went through kidney transplantation after ESRD. His transplanted kidney destroyed earlier than expected. This might be because of the action of:**  
A. Phagocytes  
B. T-lymphocytes  
C. Antibodies  
D. B-lymphocytes

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# Bio T-7 Key

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Regards.Huzaiifa Saeed,Usama Sohail



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